

AMENDMENTS TO THE CLAIMS

Claims 1-42 (Canceled)

43. (Previously presented) A method for providing adaptable precision of a capacitance sensitive touchpad, said method comprising the steps of:

(1) determining a speed of an object moving on a touchpad surface;

(2) determining if the speed of the object is above or below a speed threshold;

(3) increasing precision of the touchpad when the speed of the object is determined to be below the speed threshold; and

(4) decreasing precision of the touchpad when the speed of the object is determined to be above the speed threshold.

44. (Previously presented) The method as defined in claim 43 wherein the method further comprises the step of determining if the speed of the object is above or below the speed threshold by obtaining an instantaneous speed of the object.

45. (Previously presented) The method as defined in claim 44 wherein the step of increasing or decreasing precision of the touchpad further comprises the step of using an adaptive motion

filter to modify performance of the touchpad.

46. (Previously presented) The method as defined in claim 45 wherein the step of using an adaptive motion filter to increase precision further comprises the step of increasing a rate of determining a position of the object on the touchpad surface.

47. (Previously presented) The method as defined in claim 46 wherein the method further comprises the step of decreasing position updates transmitted to a display device.

48. (Previously presented) The method as defined in claim 45 wherein the step of using an adaptive motion filter to decrease precision further comprises the step of decreasing a rate of determining a position of the object on the touchpad surface

49. (Previously presented) The method as defined in claim 48 wherein the step of decreasing precision further comprises the step of providing more rapid updates of the object position to a display device, wherein the display device receives position information regarding the object at an increased rate.

50. (Previously presented) The method as defined in claim 43 wherein the steps of increasing and decreasing precision of the

touchpad further comprises the step of providing a plurality of different levels of precision for the touchpad, wherein the plurality of different levels of precision correspond to a plurality of different speeds of the object on the touchpad surface.

51. (Previously presented) A method for providing adaptable precision of a capacitance sensitive touchpad, said method comprising the steps of:

- (1) determining a rate of acceleration or deceleration of an object moving on a touchpad surface;

- (2) determining if the rate of acceleration or deceleration is above or below an acceleration or deceleration threshold;

- (3) increasing precision of the touchpad when the rate of acceleration or deceleration is determined to be below the acceleration or deceleration threshold; and

- (4) decreasing precision of the touchpad when the speed of the object is determined to be above the acceleration or deceleration threshold.

52. (Previously presented) The method as defined in claim 51 wherein the method further comprises the step of determining if the rate of acceleration or deceleration of the object is above or below the acceleration or deceleration threshold by obtaining

at least two instantaneous speeds measurements of the object.

53. (Previously presented) The method as defined in claim 52 wherein the step of increasing or decreasing precision of the touchpad further comprises the step of using an adaptive motion filter to modify performance of the touchpad.

54. (Previously presented) The method as defined in claim 53 wherein the step of using an adaptive motion filter to increase precision further comprises the step of increasing a rate of determining a position of the object on the touchpad surface.

55. (Previously presented) The method as defined in claim 54 wherein the method further comprises the step of decreasing position updates transmitted to a display device.

56. (Previously presented) The method as defined in claim 55 wherein the step of using an adaptive motion filter to decrease precision further comprises the step of decreasing a rate of determining a position of the object on the touchpad surface

57. (Previously presented) The method as defined in claim 56 wherein the step of decreasing precision further comprises the step of providing more rapid updates of the object position to a

display device, wherein the display device receives position information regarding the object at an increased rate.

58. (Previously presented) The method as defined in claim 51 wherein the steps of increasing and decreasing precision of the touchpad further comprises the step of providing a plurality of different levels of precision for the touchpad, wherein the plurality of different levels of precision correspond to a plurality of different rates of acceleration or deceleration of the object on the touchpad surface.

59. (Previously presented) A method for providing adaptable precision of a capacitance sensitive touchpad, said method comprising the steps of:

(1) monitoring at least one aspect of an object moving on a touchpad surface;

(2) determining if the at least one aspect of the object has reached a state wherein the precision of the capacitance sensitive touchpad should be modified;

(3) increasing precision of the touchpad when the at least one aspect of the object is determined to be within a first state; and

(4) decreasing precision of the touchpad when the at least one aspect of the object is determined to be within a second

state.

60. (Previously presented) The method as defined in claim 59 wherein the method further comprises the step of selecting the at least one aspect of the object moving on the touchpad surface from the group o aspects comprising speed and acceleration.

61. (Previously presented) A method for balancing accuracy of object position determination on a touchpad and rate of updates to a display device of the object position, said method comprising the steps of:

(1) determining if accuracy of object position is more critical to touchpad performance than rate of updates to a display device;

(2) optimizing touchpad performance to provide more accurate position determination information when that aspect of touchpad performance is more important than rate of display; and

(3) optimizing touchpad performance to provide an increased rate of updates of position information to a display device when that aspect of touchpad performance is more important than accuracy of position information.

62. (Previously presented) The method as defined in claim 61 wherein the method further comprises the step of using speed or

acceleration of an object moving across the touchpad surface as the criteria for determining which aspect of touchpad performance will be optimized.